

CYRB_HUMAN

CYTOKINE RECEPTOR COMMON BETA CHAIN PRECURSOR (CDW131 ANTIGEN)

Begin - 1, End - 897

Seq: CYRB_HUMAN Length: 897 Fri Nov 17 13:50:29 2000 Check: 148

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1  MVLAQGLLSM ALLALCWERS LAGAEETIPL QTLRCYNDYT SHITCRWADT
51  QDAQRLVNVT LIRRVNEDLL EPVSCDLSDD MPWSACPHPR CVPRRCVIPC
101 QSFVVTDDYD FSFQPDRLPLG TRLTVTLTQH VQPPEPRDLQ ISTDQDHFL
151 TWSVALGSPQ SHWLSPGDLE FEVVKRLQD SWEDAAILLS NTSQATLGPE
201 HLMPSSSTYVA RVRTRLAPGS RLSGRPSKWS PEVCWDSQPG DEAQPNLE
251 FFDGAAVLSC SWEVRKEVAS SVSFGLFYKP SPDAGEEECS PVLREGLGSL
301 HTRHHCQIPV PDPATHGQYI VSVQPRRAEK HIKSSVNIQM APPSLNVTKD
351 GDSYSLRWET MKMRYEHIDH TFEIQYRKDT ATWKDSKTET LQNAHSMALP
401 ALEPSTRYWA RVRVRTSRTG YNGIWSEWSE ARSWDTEVL PMWVLALIVI
451 FLTIAVLLAL RFCGIYGYRL RRKWEEKIPN PSKSHLFQNG SAELWPPGSM
501 SAFTSGSPPH QGPWGSRFPE LEGVFPVGFG DSEVSPLTIE DPKHVCDPPS
551 GPDTTPAASD LPTEQPPSPQ PGPPAASHTP EKQASSFDN GPYLGPPHSR
601 SLPDILGQPE PPQEGGSQKS PPPGSLEYLC LPAGGQVQLV PLAQAMGPGQ
651 AVEVERRPSQ GAAGSPSLES GGGPAPPALG PRVGGQDQKD SPVAIPMSSG
701 DTEDPGVASG YVSSADLVFT PNSGASSVSL VPSLGLPSDQ TPSLCPGLAS
751 GPPGAPGPVK SGFEGYVELP PIEGRSPRSP RNNPVPPEAK SPVLNPGERP
801 ADVSPTSPPQ EGLLVLQQVG DYCFLPGLGP GPLSLRSKPS SPGPGPEIKN
851 LDQAFQVKKP PGQAVPQVPV IQLFKALKQQ DYLSLPPWEV NKPGEVC
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FIG 1

KKIT_HUMAN: STEM CELL GROWTH FACTOR RECEPTOR
(PROTO-ONCOGENE TYROSINE-PROTEIN KINASE KIT) (C-KIT) (CD117 ANTIGEN).
SEQUENCE 976 AA; 109864 MW;

MRGARGAWDF LCVLLLLLLRV QTGSSQPSVS PGEPSPPSIH PGKSDLIVRV GDEIRLLCTD
PGFVKWTFEI LDETENKQN EWITEKAEAT NTGKYTCCTNK HGLNSIYVF VRDPAKFLFV
DRSLYGKEDN DTLVRCPLTD PEVTNYSLKG CQKPLPKDL RFIPDPKAGI MIKSVKRAYH
RLCLHCSVDQ EGKSVLSEKF ILKVRPAFKA VPVSVSKAS YLLREGEFT VTCTIKDVSS
SVYSTWKREN SQTKLQEKYN SWHGGDFNYE RQATLTISSA RVNDSGVFMC YANNTFGSAN
VTTTLEVVDK GFINIFPMIN TTVFVNDGEN VDLIVEYEF PKPEHQWIIY MNRTFTDKWE
DYPKSENESEN IRYVSELHLT RLKGTEGTY TFLVNSSDVN AAI AFNVYVN TKPEILTYDR
LVNGMLQCVA AGFPEPTIDW YFCPGTEQRC SASVLPVDVQ TLNSSGPPFG KLVVQSSIDS
SAFKHNGTVE CKAYNDVGKT SAYFNEAFKG NNKEQIHPT LEFTPLLIGFV IVAGMMCIIIV
MILTYKYLQK PMYEVQWKVV EEINGNNYVY IDPTQLPYDH KWEFPRNRLS FGKTLGAGAF
GKVVEATAYG LIKSDAAMTV AVKMLKPSAH LTEREALMSE LKVL SYLGNH MNIVNLLGAC
TIGGPTLVIT EYCCYGDLLN FLRRKRDSFI CSKQEDHAEA ALYKNLLHSK ESSCSDSTNE
YMDMKPGVSY VPPTKADKRR SVRIGSYIER DVTPAIMEDD ELALDLEDLL SFSYQVAKGM
AFLASKNCIH RDLAARNILL THGRITKICD FGLARDIKND SNYVVVKGNAR LPVKWMAPE
IFNCVYTFES DVWSYGIFLW ELFSLGSSPY PGMPVDSKFY KMIKEGFRML SPEHAPAEMY
DIMKTCWDAD PLKRPTFKQI VQLIEKQISE STNHIYSNLA NCSPNRQKPV VDHSVRINSV
GSTASSSQPL LVHDDV

FIG 2

TPOR_HUMAN: THROMBOPOIETIN RECEPTOR PRECURSOR (TPO-R)
(MYELOPROLIFERATIVE LEUKEMIA PROTEIN) (C-MPL).

TPOR OR MPL.

635 AA; 71244 MW

MPSWALFMVT SCLLLAPQNL AQVSSQDVSL LASDSEPLKC FSRTFEDLTC FWDEEEAAPS
GTYQLLYAYP REKPRACPLS SQSMPHFGTR YVCQFPDQEE VRLFFPLHLW VKNVFLNQTR
TORVLFVDSV GLPAPPSIHK AMGGSQPGEL QISWEEPAPPE ISDFLRYELR YGPRDPKNST
GPTVIQLIAT ETCCPALQRP HSASALDQSP CAQPTMPWQD GPKQTSPSRE ASALTAEGGS
CLISGLQPGN SYWLQLRSEP DGISLGGSWG SWSLPVTVDL PGDAVALGLQ CFTLDLKNVT
CQWQQQDHAS SQGFFYHSRA RCCPRDRYPI WENCEEEKT NPGLOTPOFS RCHFCSRND
IIHILVEVTT APTVHVSYL G SPFWIHQAVR LPTPNLHWRE ISSGHLELEW QHPSSWAAQE
TCYQLRYTGE GHQDWKVLEP PLGARGGTLE LRPRSRYRLQ LRRLNGPTY QGPWSSWSDP
TRVETATETA WISLVLTALHL VLGLSAVLGL LLLRWQFPAPH YRRLRHALWP SLPDLHRVLG
QYLRTAALS PPKATVSDTC EEVEPSLLEI LPKSSERTPL PLCSSQAQMD YRRLQPSCLG
TMPLSVCPPM AESGSCCTTH IANHSYLPLS YWQQP

FIG 3

TPOR_MOUSE: THROMBOPOIETIN RECEPTOR PRECURSOR (TPO-R)
(MYELOPROLIFERATIVE LEUKEMIA PROTEIN) (C-MPL).
TPOR OR MPL.
625 AA; 69817 MW;

MPSWALFMVT SCLLLALPNQ AQVTSQDVFL LALGTEPLNC FSQTFEDLTC FWDEEEAAPS
GTYQLLYAYR GEKPRACPLY SQSVPTFGTR YVCQFPAQDE VRLFFPLHLW VKNVSLNQT
IQRVLFVDSV GLPAPPRVIK ARGGSQPGEL QIHWEAPAPE ISDFLRHEL R YGPTDSSNAT
APSVIQLLST ETCCPTLWMP NPVPVLDQPP CVHPTASQPH GPAPFLT VKG GSCIVSGLQA
SKSYWLQLRS QPDGVSLRGS WGPWSFPVTV DLPGDAVTIG LQCFTLDLKM VTCQWQQQDR
TSSQGFFRHS RTRCCPTDRD PTWEKCEEEE PRPGSQPALV SRCHFCSRND SVIHILVEVT
TAQGAVHSYL GSPFWIHQAV LLPTPSLHWR EVSSGRLELE WQHSSWAAQ ETCYQLRYTG
EGREDWKVLE PSLGARGGTL ELRPRARYSL QLRARLNGPT YQGPWSAWSP PARVSTGSET
AWITLVFALL LVLSLSALLG LLLKWKQFPA HYRRLRHALW PSLPDLHRVL GQYLRDTAAL
SPSKATVTDS CEEVEPSLLE ILPKSSESTP LPLCPSQPQM DYRGLQPCLR TMPLSVCP
AETGSCCTTH IANHSYLPIS YWQQP

FIG 4

FIG 5A

FIG 5B

FIG 5C

mock β_c wt β_c 763 β_c 626 β_c 517 β_c 455

mock β_c wt β_c 626 β_c 544 β_c 517 β_c 455

mock β_c wt β_c 626 β_c 544 β_c 517 β_c 455

Mr(kDa)

192 -

127 -

73 -

43 -

32.3 -

17 -

Substitute Sheet

IP: anti 14-3-3 ζ

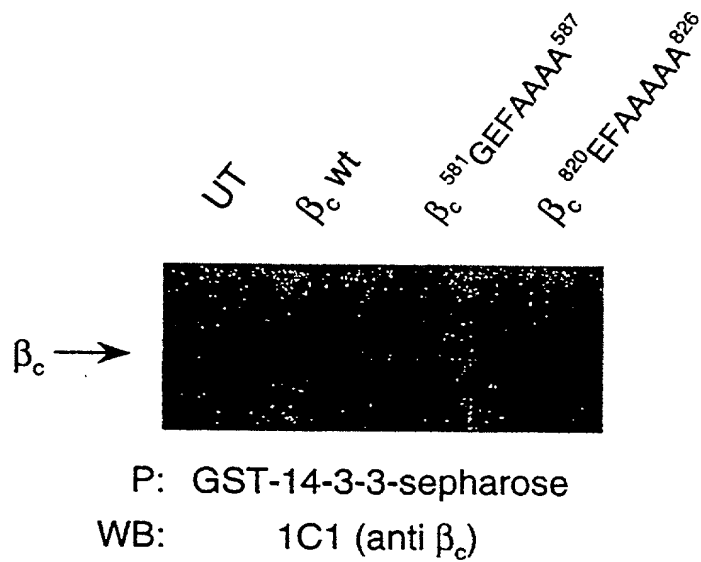
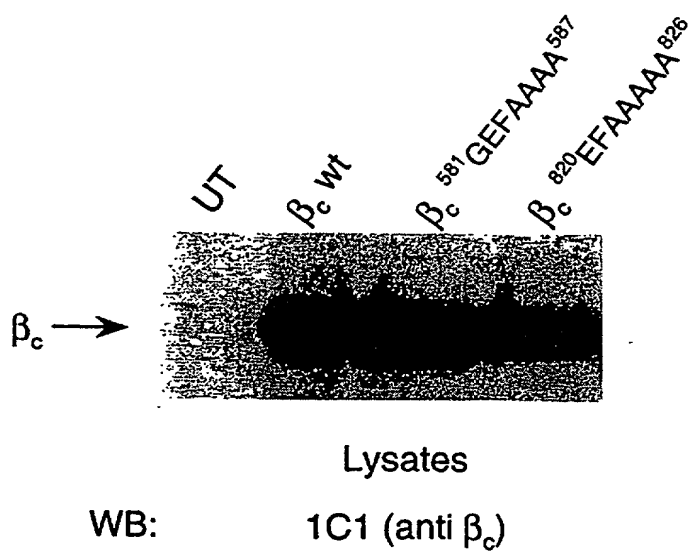
WB: 1C1 (anti β_c)

GST-14-3-3-sepharose

1C1 (anti β_c)

GST-sepharose

1C1 (anti β_c)

**FIG 6A****FIG 6B**

β_c peptides {	CLGPPHSRSLPDILG	-	+	-	-	+	-	+	-
	CLGPPHSRSLPDILG	-	-	+	-	-	-	-	+
Raf 1 peptides {	CLSQRQRSTSTPNVHM	-	-	-	+	-	-	+	-
	CLSQRQRSTSTPNVHM	-	-	-	-	-	+	-	+



P: GST-14-3-3-sepharose

WB: 1C1 (anti β_c)

FIG 7

FIG 8A

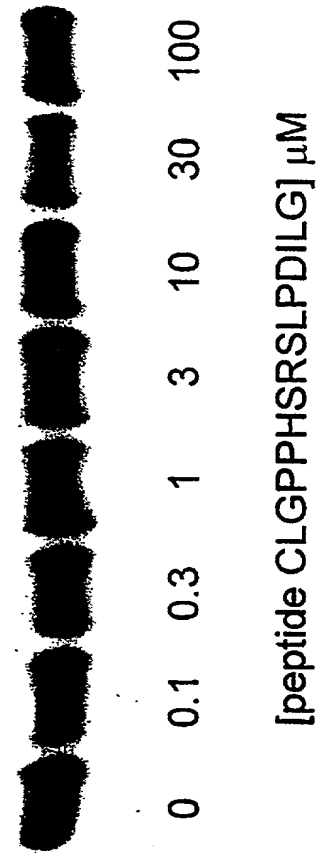


FIG 8C

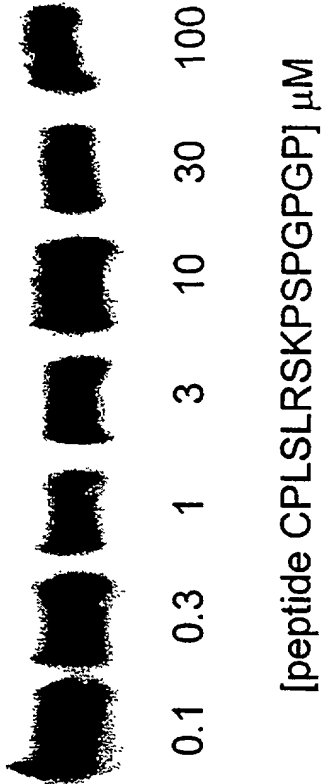


FIG 8B

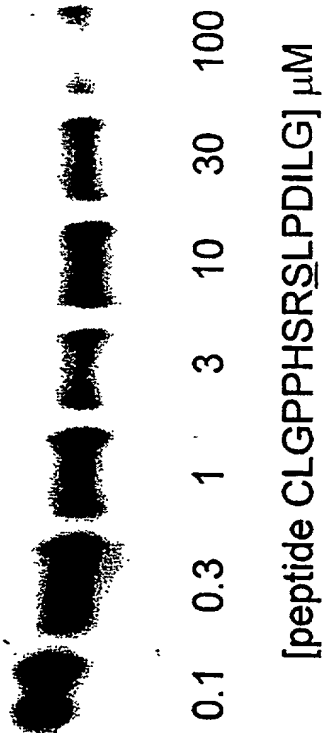
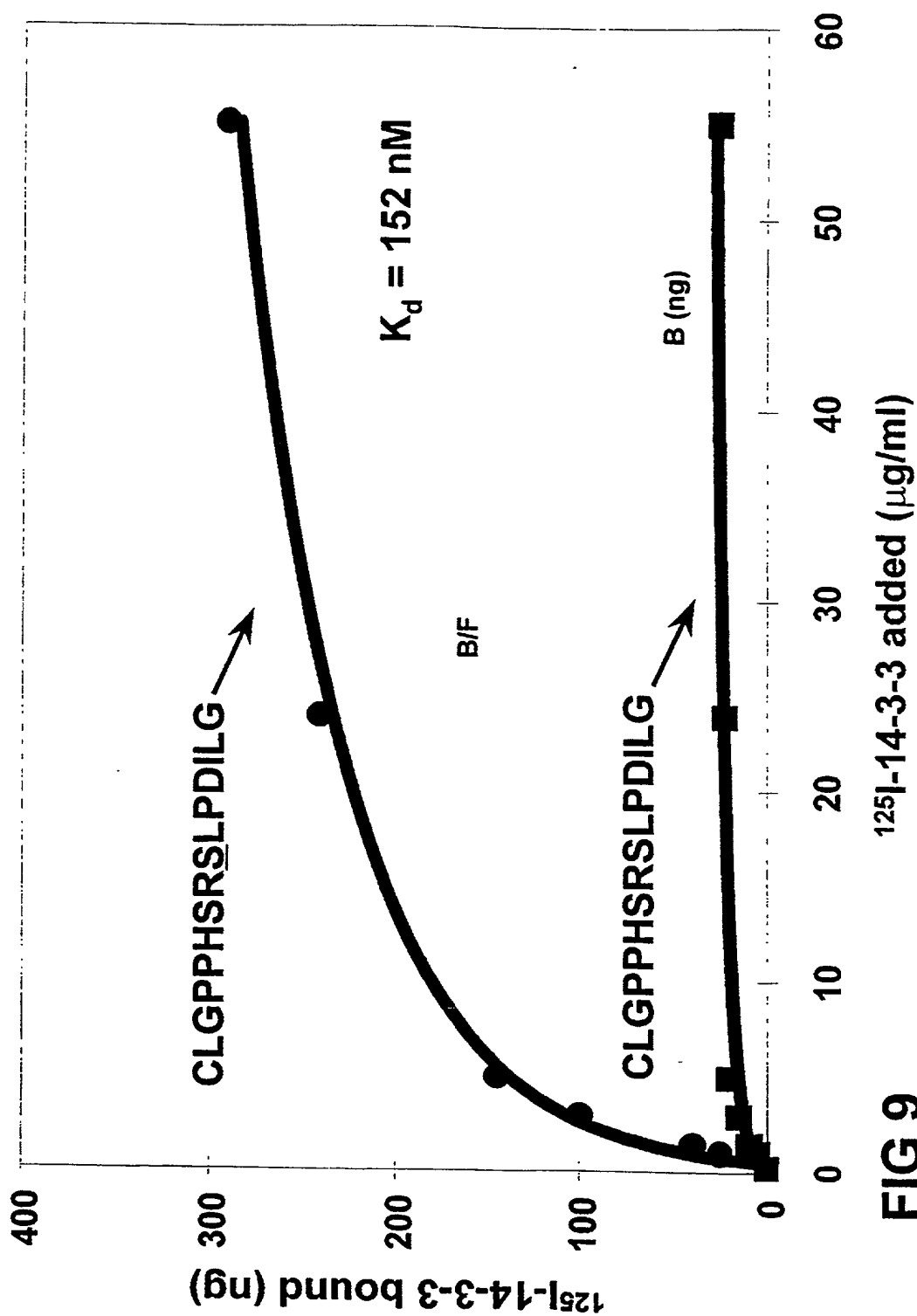


FIG 8D



**FIG 9**

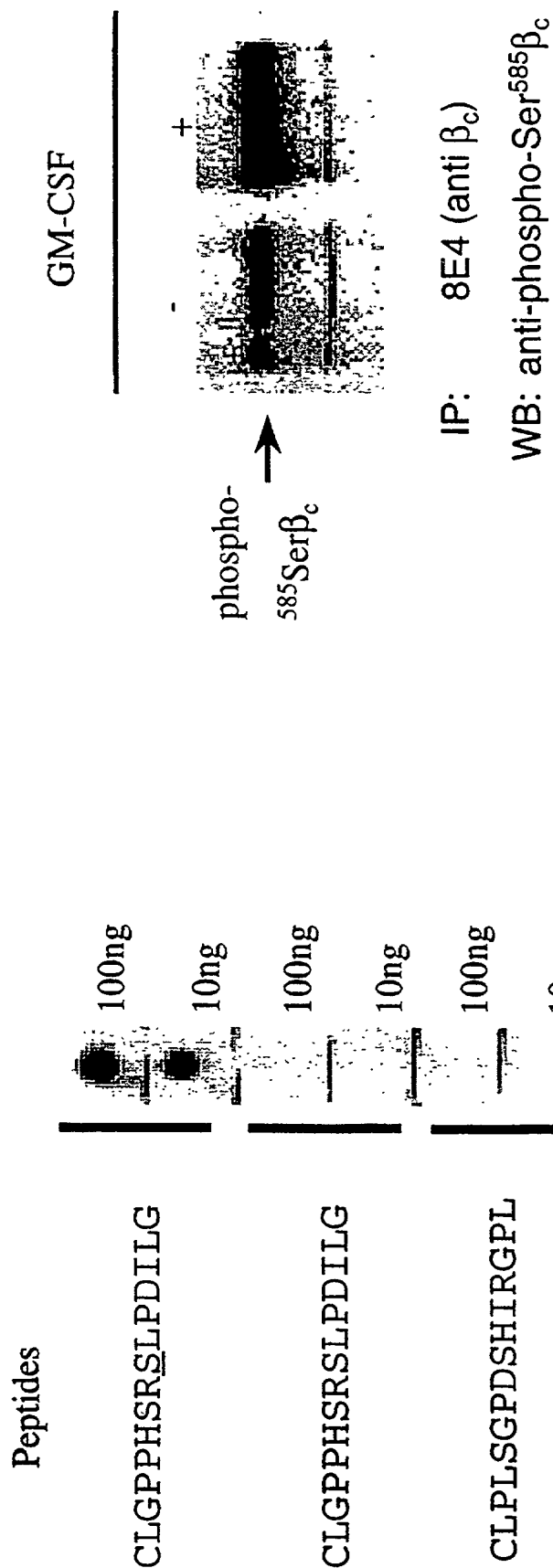


FIG 10A

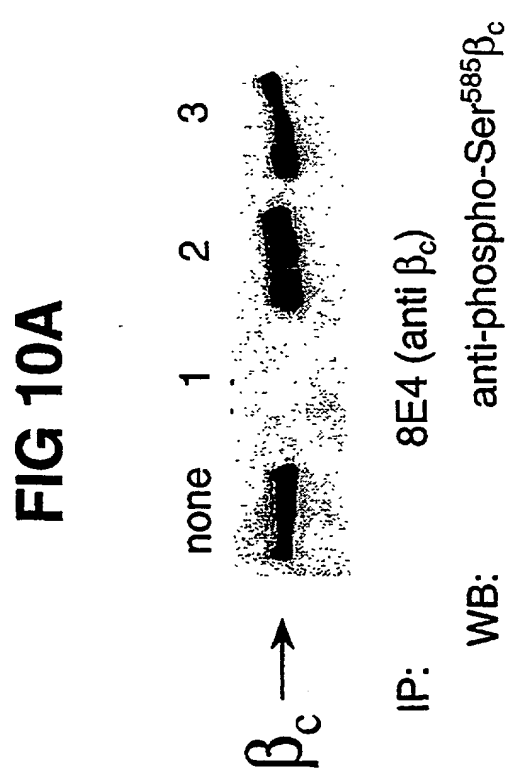
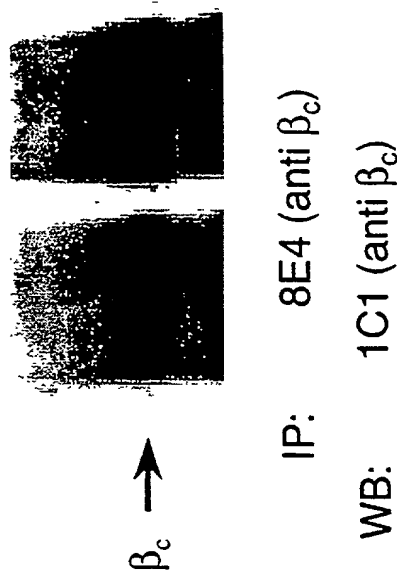


FIG 10C



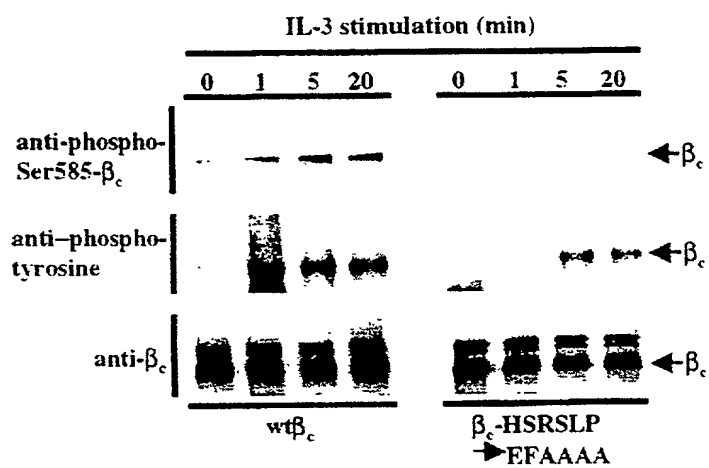


FIG 11A

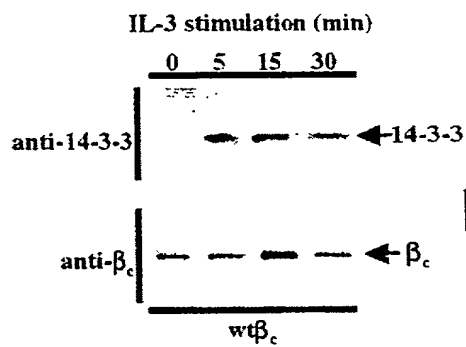


FIG 11B

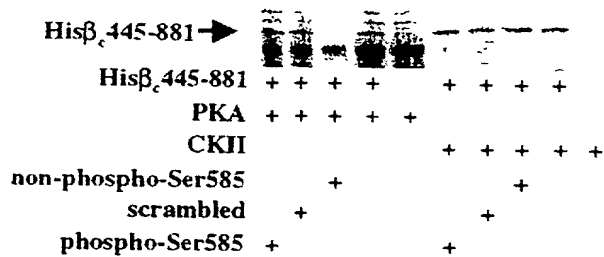


FIG 12A

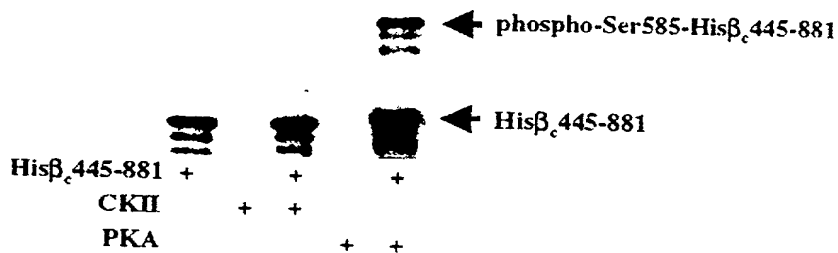


FIG 12B

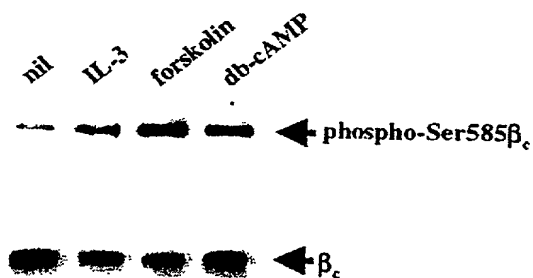


FIG 12C

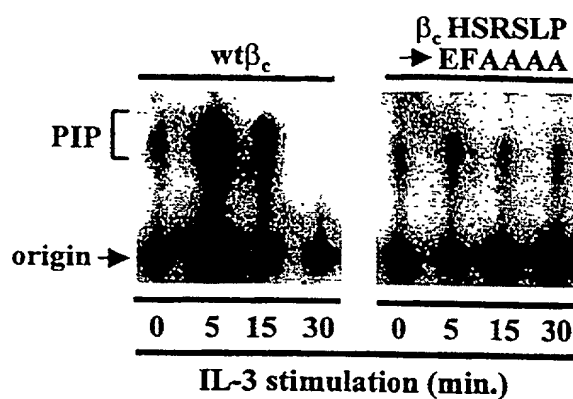


FIG 13A

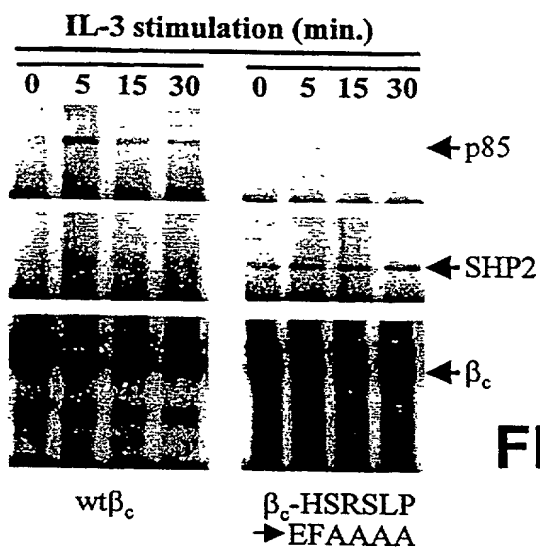


FIG 13B

name	sequence
scrambled	CLPLSGPDSHIRGPL
Ser585Ala	CLGPPHSRALPDILG
non-phospho-Ser585	CLGPPHSRSLPDILG
phospho-Ser585	CLGPPHSRSLPDILG

FIG 13C

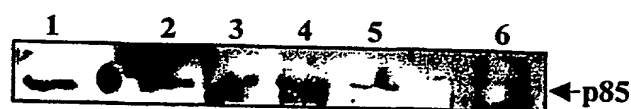


FIG 13D

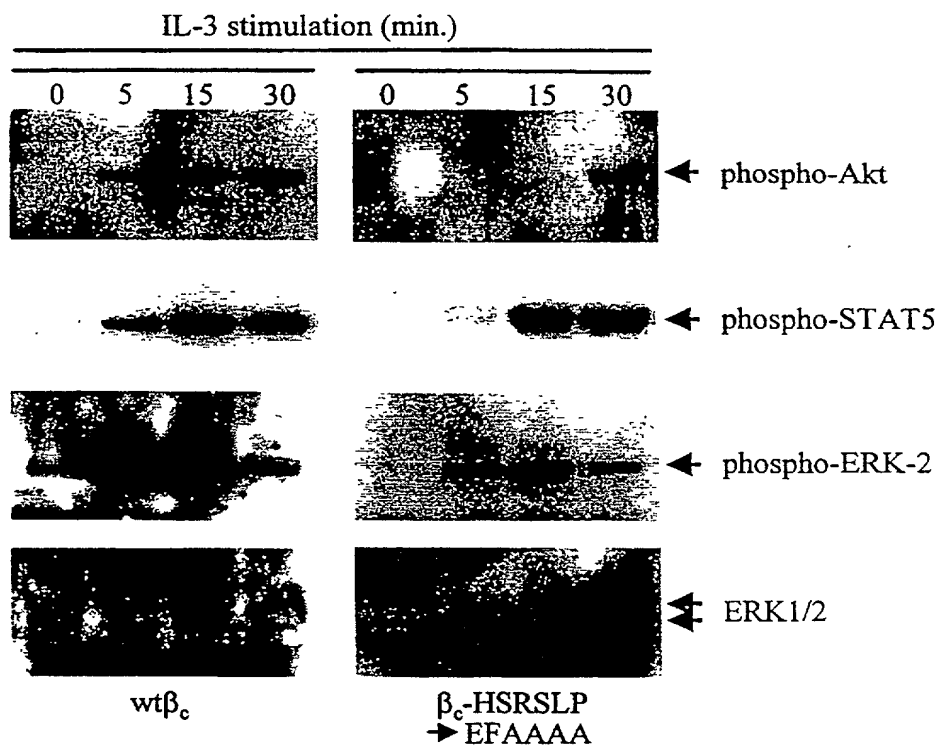


FIG 14A

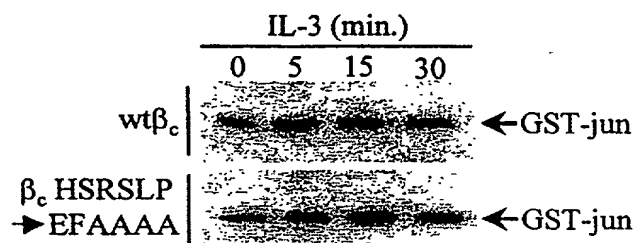


FIG 14B

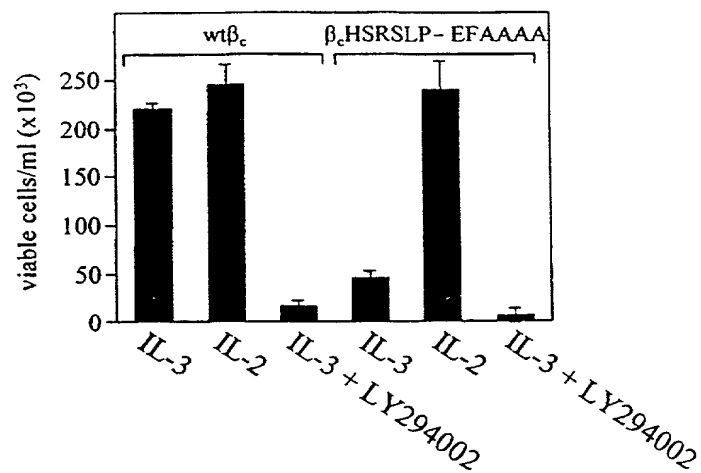


FIG 15A

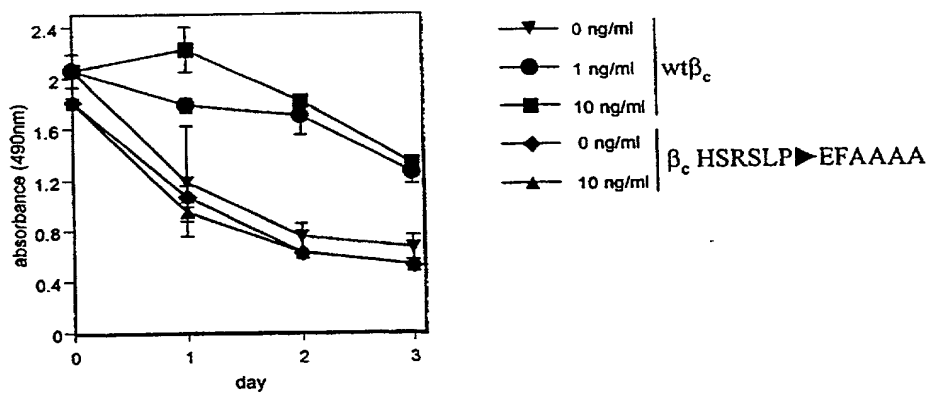


FIG 15B

	wt β_c		β_c HSRSLP m EFAAAA	
	G ₀ /G ₁	S + G ₂ /M	G ₀ /G ₁	S + G ₂ /M
asynchronous	37.3	62.7	36.0	64.0
starved	88.3	11.7	87.4	12.6
+ IL-3	64.7	35.3	64.3	35.7

FIG 16A

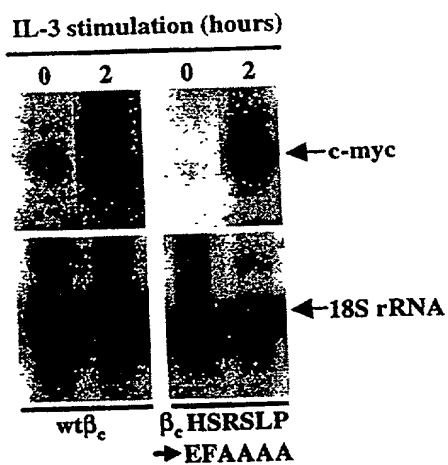


FIG 16B

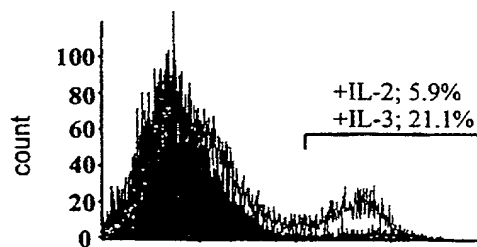


FIG 17A

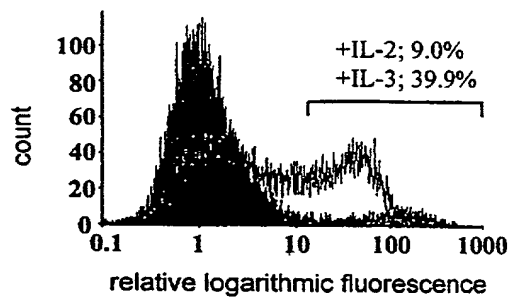


FIG 17B

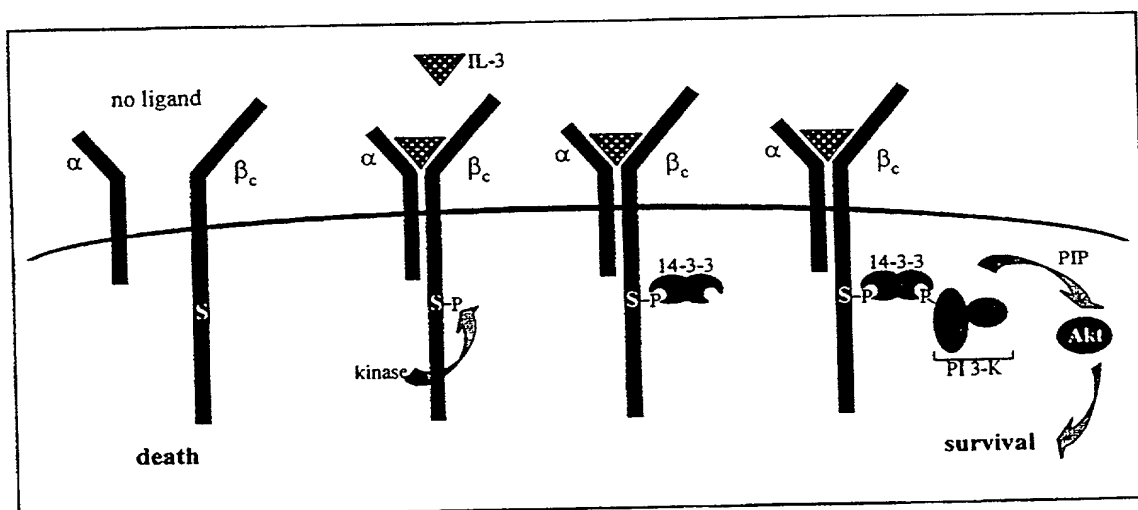
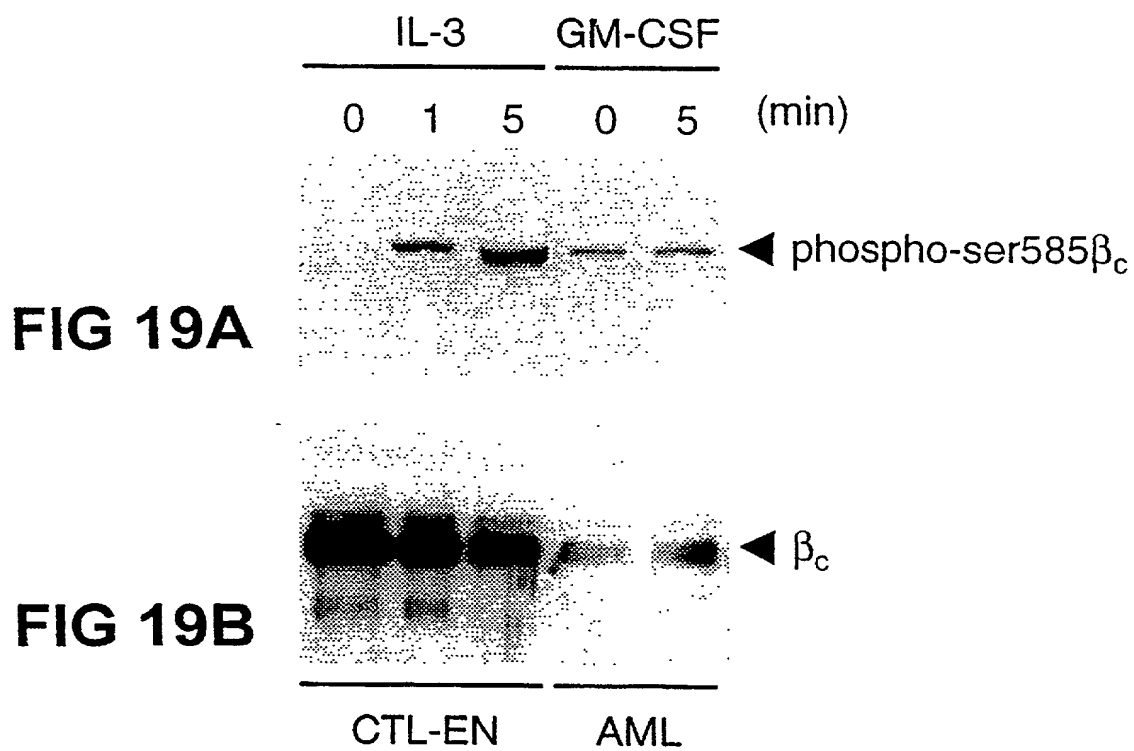


FIG 18



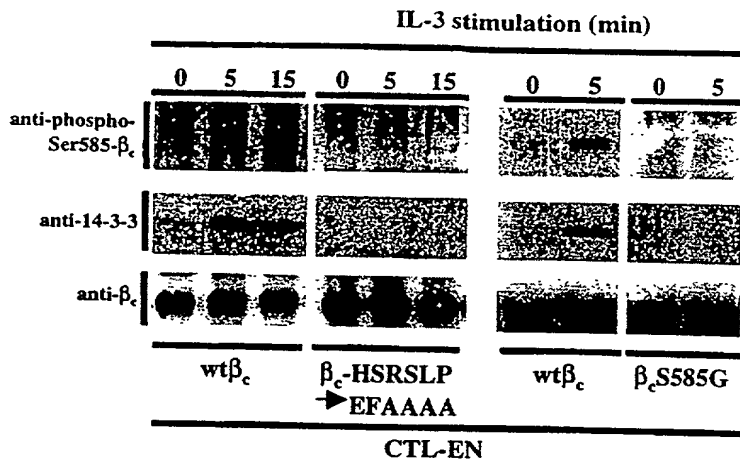


FIG 20A

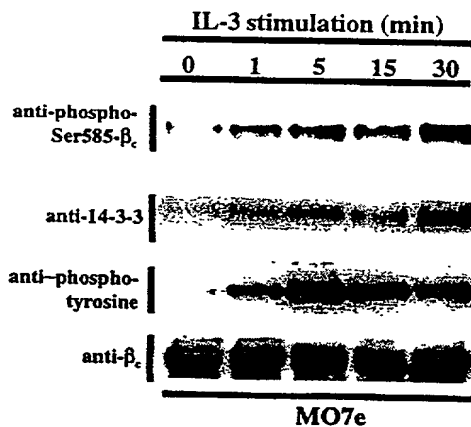


FIG 20B

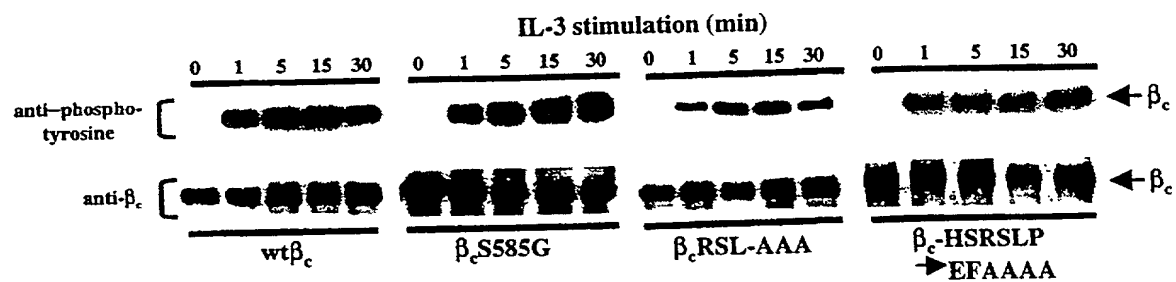


FIG 20C

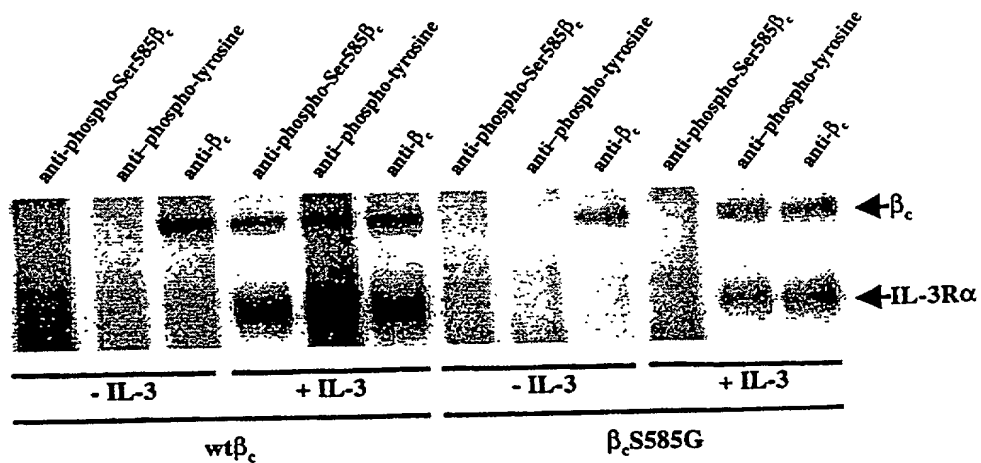


FIG 20D

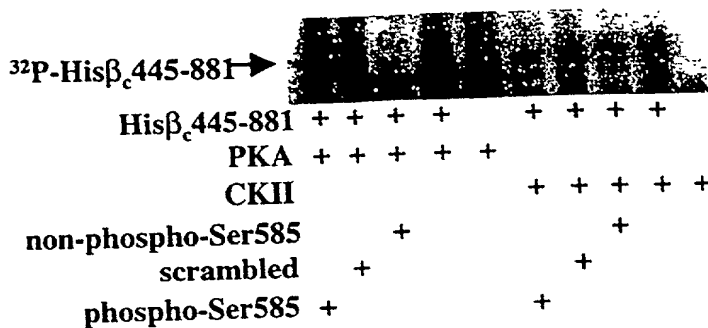


FIG 21A

FIG 21B

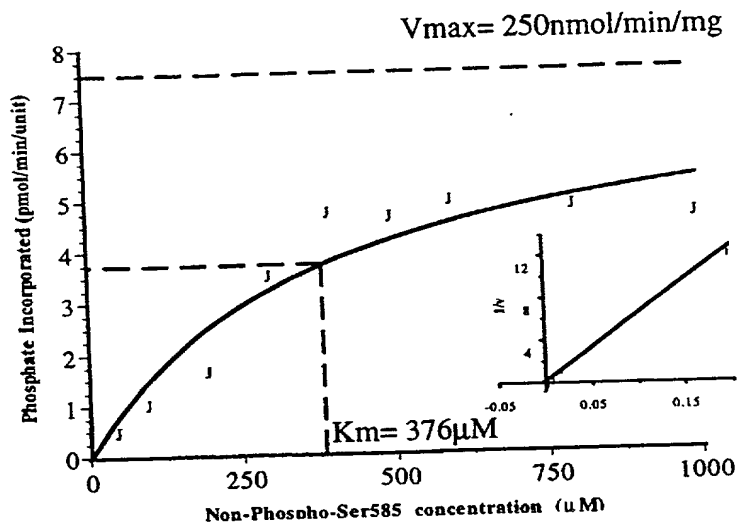
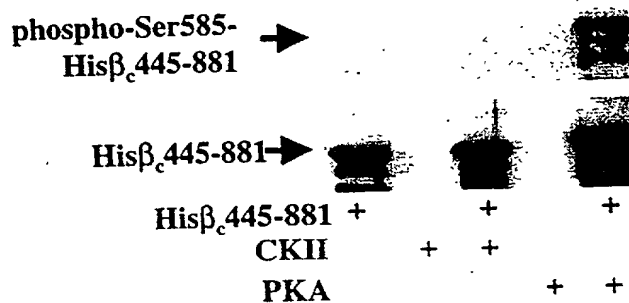
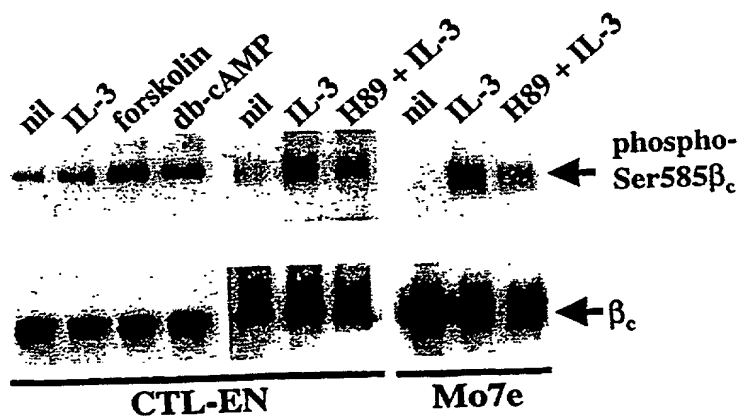


FIG 21C

FIG 21D



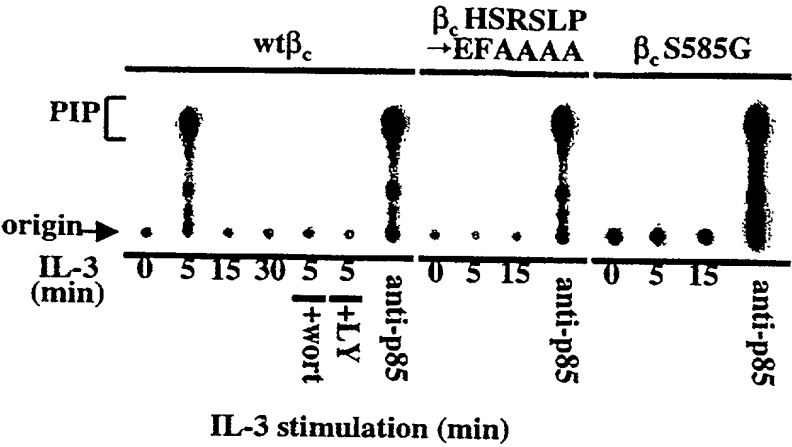


FIG 22A

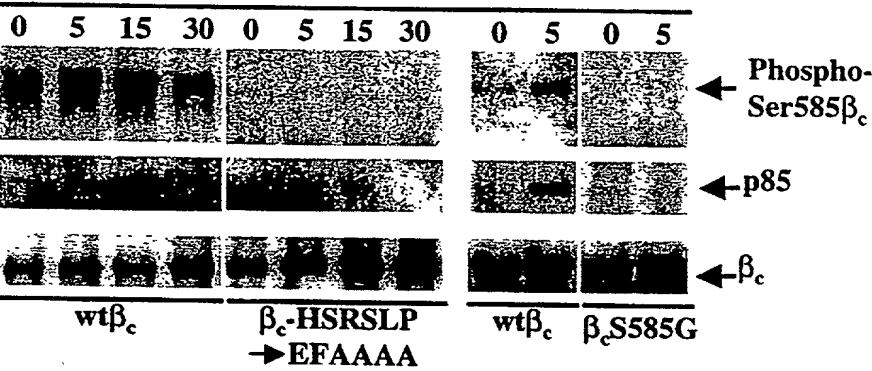


FIG 22B

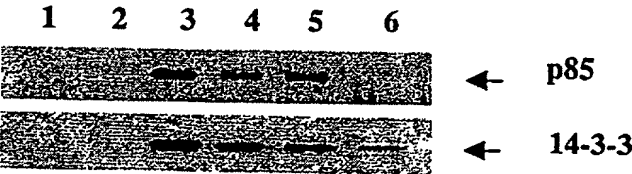


FIG 22C

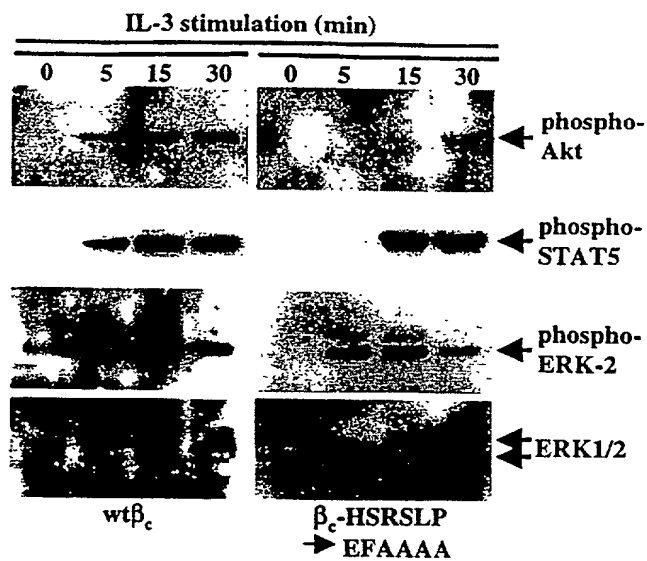


FIG 23A

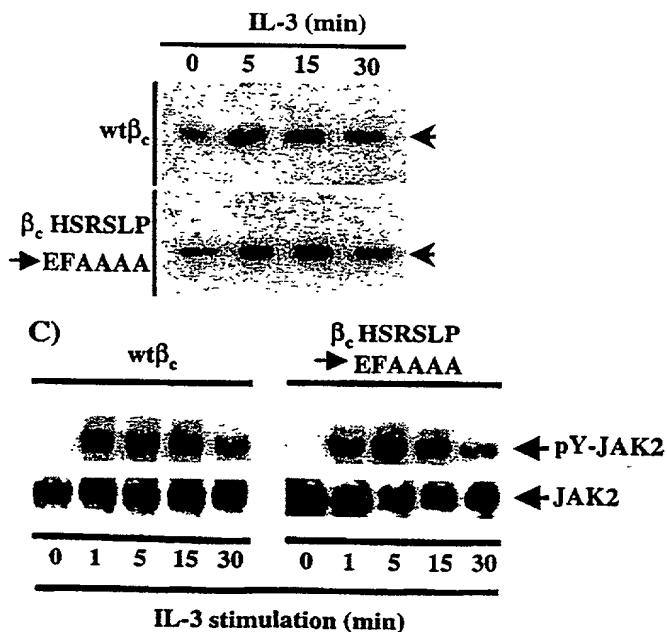


FIG 23B

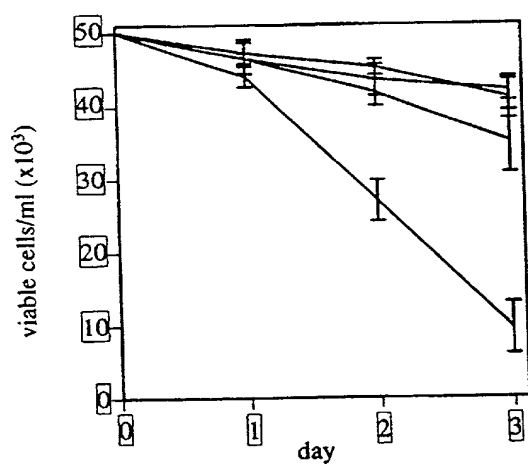
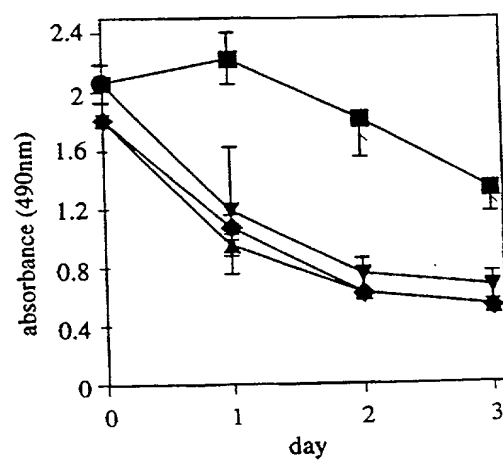
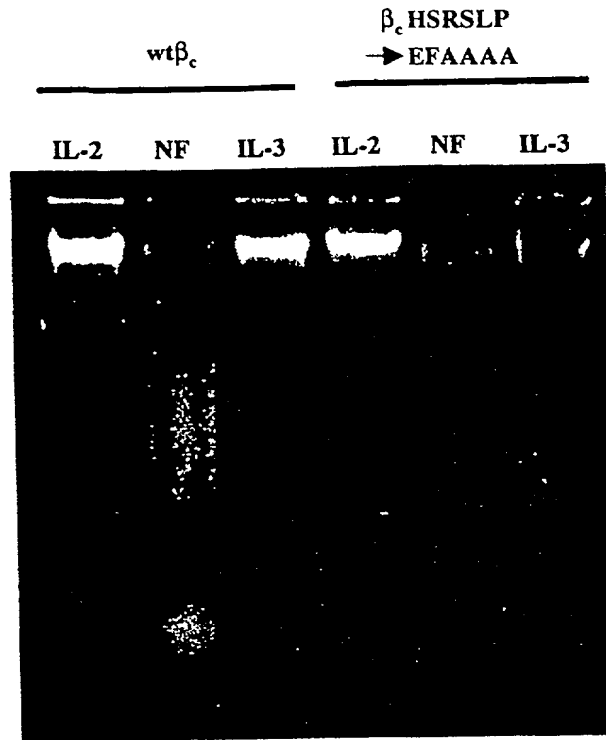
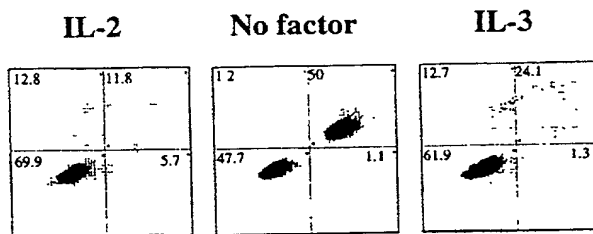
**FIG 24A****FIG 24B**

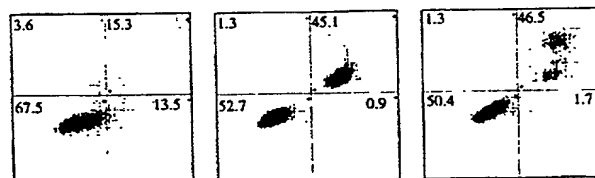
FIG 24C



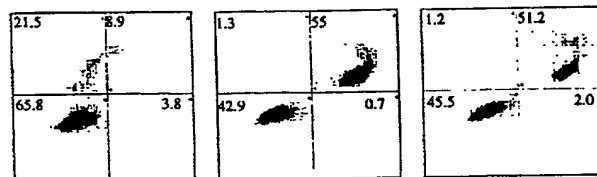
wt β_c



β_c S585G



β_c RSL-AAA



β_c HSRSLP-
EFAAAA

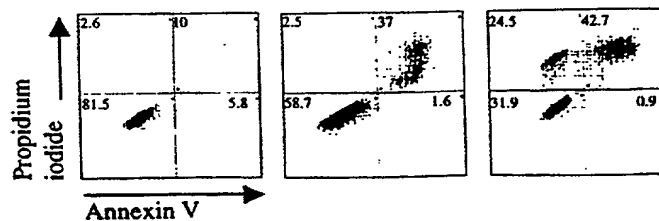


FIG 24D

	wt β_c		β_c HSRSLPmEFAAAA	
	G ₀ /G ₁	S + G ₂ /M	G ₀ /G ₁	S + G ₂ /M
asynchronous	37.3	62.7	36.0	64.0
starved	88.3	11.7	87.4	12.6
+ IL-3	64.7	35.3	64.3	35.7

FIG 25A

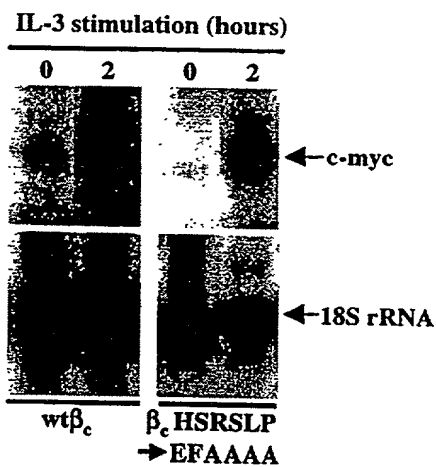


FIG 25B

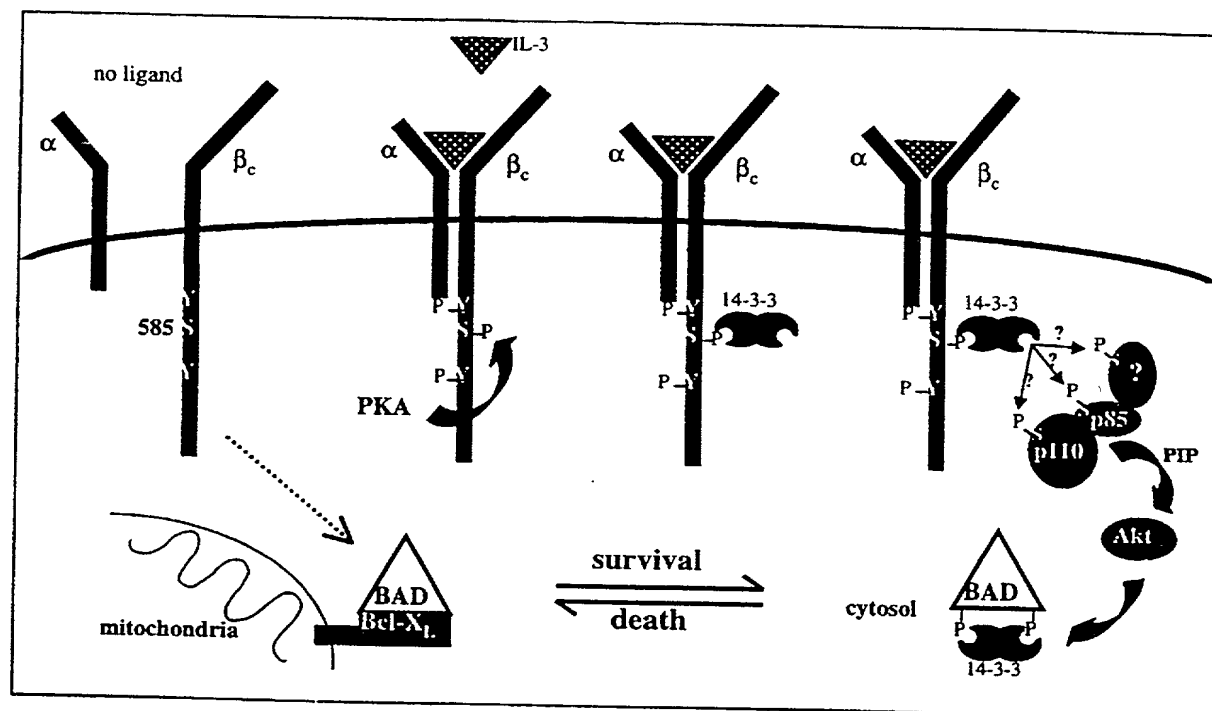


FIG 26

GM-CSF (min.)

+H89

0

5

5

 ◀ phospho-Y- β_c

 ◀ phospho-Ser585- β_c

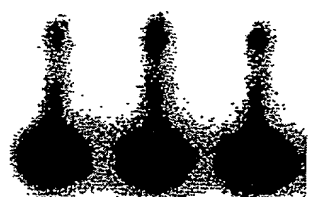
 ◀ p85

 ◀ 14-3-3

 ◀ β_c

FIG 27A

 ◀ PIP

 ◀ origin

0

5

5

+H89

FIG 27B

GM-CSF (min.)